

Faculty of Information and Communication Technology, Mahidol University

ITCS495 Special Topics in Database and Intelligent Systems

Semester 1/2022

Ontology Assignment (10%)

Individual Assignment

Due Date: Friday 30th September 2022 11.00 P.M.

For this assessment, you are required to answer the question about ontology and work on ontology development.

The **first** task is to **answer the following questions with the image of tree view of protégé**. Please put all the answer into the report.

Ontology Questions

1. What are the subclasses of Pizza?
2. What are the classes that CheesyPizza equivalent to?
3. What are the superclasses of CheesyVegetableTopping?
4. What are the subclasses of SeafoodTopping
5. Please interpret the meaning of InterestingPizza in plain English.
6. Please interpret the meaning of VegetarianPizza in plain English.
7. Please interpret the meaning of MozzarellaTopping in plain English.
8. Please interpret the meaning of VegetarianPizza2 in plain English.
9. Please interpret the meaning of IceCreamin plain English.
10. What are the classes that disjoint with ArtichokeTopping?

The **second** task is to **modify the pizza ontology to support Thai style pizza**. You need to study the structure of the pizza ontology carefully. Then you need to come up with as follows:

1. 3 Thai style pizzas
2. 5 new pizza topping
3. Some pizza shops and define which pizza of the 3 new pizza is sold in which pizza shop.
4. All necessary new properties

In the report, you need to add your idea and show what are added with explanation.

Formatting rules

1. The font used **Times New Roman** for the text, **size 12** and **1.5 line space**.

2. The report must be proof-read and spell-checked before submission.
3. The report needs to have heading for each task and all applicable sub-heading

Report Structure

1. Write you first name, last name, and id in header section
2. Your report will contain 2 headings, which are 1. Ontology Question and 2. Thai Pizza Ontology
3. In the Ontology Question section, you need to have questions and answers
4. In the Thai Pizza Ontology section, please contain everything mentioned in the second task

Submission Requirements (Friday 30th September 2022 11.00 P.M.)

Submit the .zip packages of the **report in pdf** and **the modified ontology to the assignment submission slot on MyCourses.**

Late Submission:

Late Assignments or extensions will not be accepted unless you submit a special consideration form and provide valid documentation such as a medical certificate prior to the submission deadline (NOT after).